

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/S31,492
Source: TFWP
Date Processed by STIC: 5/5-06

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IFWP

RAW SEQUENCE LISTING

DATE: 05/15/2006

PATENT APPLICATION: US/10/531,492

TIME: 09:54:16

Input Set : A:\-24-3.APP

Output Set: N:\CRF4\05152006\J531492.raw

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3 <110> APPLICANT: Hitoshi, Yasumichi
4      Anderson, David
5      Rigel Pharmaceuticals, Inc.
7 <120> TITLE OF INVENTION: Cell Cycle Targets and Peptides
9 <130> FILE REFERENCE: 021044-002430PC
11 <140> CURRENT APPLICATION NUMBER: US 10/531,492
12 <141> CURRENT FILING DATE: 2005-04-15
14 <150> PRIOR APPLICATION NUMBER: US 60/422,912
15 <151> PRIOR FILING DATE: 2002-10-30
17 <150> PRIOR APPLICATION NUMBER: US 60/460,845
18 <151> PRIOR FILING DATE: 2003-04-04
20 <150> PRIOR APPLICATION NUMBER: WO PCT/US03/34669
21 <151> PRIOR FILING DATE: 2003-10-30
23 <160> NUMBER OF SEQ ID NOS: 58
25 <170> SOFTWARE: PatentIn Ver. 2.1
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 20
29 <212> TYPE: PRT
30 <213> ORGANISM: Artificial Sequence
32 <220> FEATURE:
33 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide 35,
34      peptide 88, peptide 35/88
36 <400> SEQUENCE: 1
37 Arg Leu Arg Arg Ile Cys Ser Gly Ile Leu Leu Ile Arg Arg Ile Leu
38   1               5               10               15
40 Gly Ile Phe Val
41           20
44 <210> SEQ ID NO: 2
45 <211> LENGTH: 4
46 <212> TYPE: PRT
47 <213> ORGANISM: Artificial Sequence
49 <220> FEATURE:
50 <223> OTHER INFORMATION: Description of Artificial Sequence:C-terminus
51      vector-derived sequence
53 <400> SEQUENCE: 2
54 Arg Pro Val Arg
55   1
58 <210> SEQ ID NO: 3
59 <211> LENGTH: 5
60 <212> TYPE: PRT
61 <213> ORGANISM: Artificial Sequence
63 <220> FEATURE:
64 <223> OTHER INFORMATION: Description of Artificial Sequence:C-terminus

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65      vector-derived sequence
67 <400> SEQUENCE: 3
68 Arg Pro Val Arg Pro
69  1          5
72 <210> SEQ ID NO: 4
73 <211> LENGTH: 17
74 <212> TYPE: PRT
75 <213> ORGANISM: Artificial Sequence
77 <220> FEATURE:
78 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide 38
80 <400> SEQUENCE: 4
81 Thr Ser Gly Leu Leu Lys Leu Val Gln Ala Lys Arg Lys Cys Cys Ile
82  1          5          10          15
84 Ser
87 <210> SEQ ID NO: 5
88 <211> LENGTH: 20
89 <212> TYPE: PRT
90 <213> ORGANISM: Artificial Sequence
92 <220> FEATURE:
93 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide 40
95 <400> SEQUENCE: 5
96 Arg Trp Asp Pro Thr Arg Leu Leu Arg Phe Arg Phe Leu Arg Met Leu
97  1          5          10          15
99 Val Arg Arg Ser
100          20
103 <210> SEQ ID NO: 6
104 <211> LENGTH: 20
105 <212> TYPE: PRT
106 <213> ORGANISM: Artificial Sequence
108 <220> FEATURE:
109 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide 41
111 <400> SEQUENCE: 6
112 Gly Arg Gly Cys Ile Phe Arg Trp Arg Arg Gly Leu Arg Gly Met Met
113  1          5          10          15
115 Arg Leu Phe Lys
116          20
119 <210> SEQ ID NO: 7
120 <211> LENGTH: 7
121 <212> TYPE: PRT
122 <213> ORGANISM: Artificial Sequence
124 <220> FEATURE:
125 <223> OTHER INFORMATION: Description of Artificial Sequence:lysine residues
126      fused to N-terminus, K7, lys7
128 <400> SEQUENCE: 7
129 Lys Lys Lys Lys Lys Lys Lys
130  1          5
133 <210> SEQ ID NO: 8
134 <211> LENGTH: 78
135 <212> TYPE: DNA

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136 <213> ORGANISM: Artificial Sequence
138 <220> FEATURE:
139 <223> OTHER INFORMATION: Description of Artificial Sequence:nucleotide
140     sequence encoding peptide 35/88
142 <400> SEQUENCE: 8
143 cggctccgga gaatatgtag cggcattctg ctcatccgta ggatattggg cattttcgtt 60
144 aggcccggtga ggccttaa                                     78
147 <210> SEQ ID NO: 9
148 <211> LENGTH: 53
149 <212> TYPE: DNA
150 <213> ORGANISM: Artificial Sequence
152 <220> FEATURE:
153 <223> OTHER INFORMATION: Description of Artificial Sequence:nucleotide
154     sequence encoding peptide 38
156 <400> SEQUENCE: 9
157 actagtgggt tgctgaagct ggtgcaggct aagcgtaagt gttgtattag tta          53
160 <210> SEQ ID NO: 10
161 <211> LENGTH: 78
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial Sequence
165 <220> FEATURE:
166 <223> OTHER INFORMATION: Description of Artificial Sequence:nucleotide
167     sequence encoding peptide 40
169 <400> SEQUENCE: 10
170 cgttgggatc cgacgcgatt gctgcgattt cggttcctcc ggatgctagt gaggcggagt 60
171 aggcccggtga ggccttaa                                     78
174 <210> SEQ ID NO: 11
175 <211> LENGTH: 63
176 <212> TYPE: DNA
177 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: Description of Artificial Sequence:nucleotide
181     sequence encoding peptide 41
183 <400> SEQUENCE: 11
184 ggaaggggat gtatctttcg atggaggaga ggcctgcggg gaatgatgag actatttaag 60
185 tag                                                         63
188 <210> SEQ ID NO: 12
189 <211> LENGTH: 8
190 <212> TYPE: PRT
191 <213> ORGANISM: Artificial Sequence
193 <220> FEATURE:
194 <221> NAME/KEY: MOD_RES
195 <222> LOCATION: (1)..(3)
196 <223> OTHER INFORMATION: Xaa = large hydrophobic amino acid selected from
197     the group Leu, Ile, Phe, Met, Tyr or Trp, wherein
198     at least one is Leu or Ile, Xaa at position 3 may
199     be present or absent
201 <220> FEATURE:
202 <221> NAME/KEY: MOD_RES

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203 <222> LOCATION: (4)..(6)
204 <223> OTHER INFORMATION: Xaa = large hydrophobic amino acid selected from
205     the group Leu, Ile, Phe, Met, Tyr or Trp, wherein
206     at least one is Leu or Ile, Xaa at position 6 may
207     be present or absent
209 <220> FEATURE:
210 <221> NAME/KEY: MOD_RES
211 <222> LOCATION: (7)..(8)
212 <223> OTHER INFORMATION: Xaa = large hydrophobic amino acid selected from
213     the group Leu, Ile, Phe, Met, Tyr or Trp, wherein
214     at least one is Leu or Ile
216 <220> FEATURE:
217 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide motif
219 <400> SEQUENCE: 12
W--> 220 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
      221   1             5
224 <210> SEQ ID NO: 13
225 <211> LENGTH: 6
226 <212> TYPE: PRT
227 <213> ORGANISM: Artificial Sequence
229 <220> FEATURE:
230 <223> OTHER INFORMATION: Description of Artificial Sequence:linker
232 <400> SEQUENCE: 13
233 Glu Glu Ala Ala Lys Ala
234   1             5
237 <210> SEQ ID NO: 14
238 <211> LENGTH: 37
239 <212> TYPE: PRT
240 <213> ORGANISM: Artificial Sequence
242 <220> FEATURE:
243 <223> OTHER INFORMATION: Description of Artificial Sequence:biotinylated
244     peptide 40 fused to C-terminus of GFP
246 <220> FEATURE:
247 <221> NAME/KEY: MOD_RES
248 <222> LOCATION: (1)
249 <223> OTHER INFORMATION: Xaa = biotinylated Gly
251 <400> SEQUENCE: 14
W--> 252 Xaa Met Asp Glu Tyr Lys Glu Glu Ala Ala Lys Ala Arg Trp Asp
      253   1             5             10             15
255 Pro Thr Arg Leu Arg Phe Arg Phe Leu Arg Met Leu Val Arg Arg
256           20             25             30
258 Ser Arg Pro Val Arg
259           35
262 <210> SEQ ID NO: 15
263 <211> LENGTH: 37
264 <212> TYPE: PRT
265 <213> ORGANISM: Artificial Sequence
267 <220> FEATURE:
268 <223> OTHER INFORMATION: Description of Artificial Sequence:inactive

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269      biotinylated alanine mutant of peptide 40
271 <220> FEATURE:
272 <221> NAME/KEY: MOD_RES
273 <222> LOCATION: (1)
274 <223> OTHER INFORMATION: Xaa = biotinylated Gly
276 <400> SEQUENCE: 15
W--> 277 Xaa Met Asp Glu Leu Tyr Lys Glu Glu Ala Ala Lys Ala Arg Trp Asp
      278   1           5           10           15
280 Pro Thr Arg Ala Leu Arg Ala Arg Phe Ala Arg Ala Leu Val Arg Arg
      281           20           25           30
283 Ser Arg Pro Val Arg
      284           35
287 <210> SEQ ID NO: 16
288 <211> LENGTH: 33
289 <212> TYPE: PRT
290 <213> ORGANISM: Artificial Sequence
292 <220> FEATURE:
293 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide 41
294      fused to C-terminus of GFP
296 <400> SEQUENCE: 16
297 Gly Met Asp Glu Leu Tyr Lys Glu Glu Ala Ala Lys Ala Gly Arg Gly
      298   1           5           10           15
300 Cys Ile Phe Arg Trp Arg Arg Gly Leu Arg Gly Met Met Arg Leu Phe
      301           20           25           30
303 Lys
306 <210> SEQ ID NO: 17
307 <211> LENGTH: 54
308 <212> TYPE: DNA
309 <213> ORGANISM: Artificial Sequence
311 <220> FEATURE:
312 <223> OTHER INFORMATION: Description of Artificial Sequence:nucleotide
313      sequence of peptide 38 with in-frame stop codon
315 <400> SEQUENCE: 17
316 actagtgggt tgctgaagct ggtgcaggct aagcgtaagt gttgtattag ttag      54
319 <210> SEQ ID NO: 18
320 <211> LENGTH: 25
321 <212> TYPE: PRT
322 <213> ORGANISM: Artificial Sequence
324 <220> FEATURE:
325 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide #40
327 <400> SEQUENCE: 18
328 Arg Trp Asp Pro Thr Arg Leu Leu Arg Phe Arg Phe Leu Arg Met Leu
      329   1           5           10           15
331 Val Arg Arg Ser Arg Pro Val Arg Pro
      332           20           25
335 <210> SEQ ID NO: 19
336 <211> LENGTH: 25
337 <212> TYPE: PRT
338 <213> ORGANISM: Artificial Sequence

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RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:12; Xaa Pos. 1, 2, 3, 4, 5, 6, 7, 8
Seq#:14; Xaa Pos. 1
Seq#:15; Xaa Pos. 1
Seq#:57; Xaa Pos. 1

VERIFICATION SUMMARY

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Input Set : A:\-24-3.APP

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L:220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:252 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:1012 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:0